

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONTRACT CHANGE ORDER MEMORANDUM

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TO: Tony Anziano, Program Manager /			FILE: E.A. 04 - 0120F4	
FROM: Darryl Schram, Senior TE			CO-RTE-PM SF-80-13.2/13.9	
			FED. NO. No	
CCO#: 191	SUPPLEMENT#: 1	Category Code: CBPC	CONTINGENCY BALANCE (incl. this change) \$47,448,165.62	
COST: \$91,183.00 INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: Additional Miscellaneous Electrical			PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE	
Original Contract Time: 2490 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 501 Day(s)	Percentage Time Adjusted: (including this change) 20 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 9

THIS CHANGE ORDER PROVIDES FOR:

Revising miscellaneous electrical items to resolve conflicts and adjust to as-built conditions, including:

- 1)Revising cable routing to cable trays, utility panels, and receptacles.
- 2)Attaching service platform wireways to strut channels.
- 3)Adding cable racks and revising the grounding conductors inside the manholes.
- 4)Installing electrical conduit penetration in the Orthotropic Box Girder (OBG) longitudinal diaphragm plate near Panel Point (PP) 118. Priming the penetration.
- 5)Eliminating two light fixtures on the bikepath railing at PP 119 Eastbound (EB).
- 6)Furnishing and installing additional light fixtures inside the OBG wings at PP 115 to 118.
- 7)Revising Special Provisions Section 10-3.10 "Conductors, Cables and Wiring."
- 8)Adding two duplex receptacles and relocating mounting plate in each strong motion detection system recorder cabinet.
- 9)Replacing the mechanical lug on the elevator disconnect switch with Burndy terminal lug.
- 10)Adding pull box for the GPS antenna.
- 11)Revising conduit stub-up on metal bases for roadway lighting at PP 119 EB and Westbound (WB) and the overhead sign at PP 121 WB. Repairing paint after installation of revised conduit stub-ups.

Contract Change Order (CCO) 191 S0 "Misc. Electrical Changes" resolved electrical conflicts that were identified through the RFI and submittal review process through December 2011. This change order supplement will continue to modify minor electrical items as conflicts are identified through December 2012.

- 1)Cable routing will be changed to accommodate the pulling sequence which groups the cables by function to pull and install the cables through conduits and to simplify routes.
- 2)The service platform wireways will be secured to the support structure to prevent movement.
- 3)Cable racks will be added to support the cables. A ground clamp with a No. 2 grounding conductor is added to bond conduit terminating at manholes or pier columns to make a secure grounding connection for shock protection.
- 4)Penetration will be installed to provide a path to route light circuits to crossbeam 18.
CCO 169 "Bikepath Handrail Modification" replaced the railing divider with continuous rail at PP 119 but did not eliminate the lighting fixtures that were to be installed in the railing divider. A credit will be provided for installation but lighting fixtures were already purchased and delivered to the project so there will not be a credit for furnishing.
- 5)Light fixtures will be added to properly light the interior of the OBG wing areas without shadows.
- 6)The cables to the call boxes were rerouted through conduit and no longer require armor to protect the cables from the elements.
- 7)California Survey Geological (CSG) personnel have requested locating the mounting plate less than 12 inches above the cabinet floor and adding receptacles to the mounting plate to support their seismic recording equipment.
- 8)The standard disconnect switch is furnished with 100A lugs that will not accommodate termination of the feeder conductors on each lug.
- 9)CSG has requested a pull box to support their GPS antenna installation.
- 10)Roxtec RS Seals will be installed for conduit support since the fabricated bases do not provide access for installing side plates. Unistrut conduit supports will be installed to prevent movement of the conduit.

This change order resolves the costs associated with Contractor Request for Information (RFI) numbers 2644R1, 2665, 2764, 2765, 2766, 2767, 2769, 2775, 2777R0, 2777R1, 2801, 2816, 3035, 3040, 3057, 3067, 3080, and 3082 with respect to changes listed above.

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The total cost of this change order is \$91,183.00 lump sum, which can be financed from supplemental funds. The cumulative total of CCO 191 S0 and S1 is \$540,969.00. A detailed cost analysis is on file.

Consideration of a time adjustment will be deferred until completion of the work specified herein. Determination of a commensurate time adjustment will be made in accordance with Section 10-1.13, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)" and Section 10-1.14, "TIME-RELATED OVERHEAD" of the Special Provisions, as well as Section 8-1.07, "LIQUIDATED DAMAGES", of the Standard Specifications.

This change order has concurrence from William Casey (Supervising TE), Rich Foley (HQ Oversight), Lina Ellis (Maintenance), and Jing Chen (District Design).

CONCURRED BY:			ESTIMATE OF COST		
Construction Engineer:	William Casey, Sup TE	Date 3/12/13	THIS REQUEST		
Bridge Engineer:		Date	ITEMS	\$0.00	TOTAL TO DATE \$0.00
Project Engineer:	District Design, Jing Chen	Date 3/18/13	FORCE ACCOUNT	\$0.00	\$0.00
Project Manager:		Date	AGREED PRICE	\$91,183.00	\$91,183.00
FHWA Rep.:		Date	ADJUSTMENT	\$0.00	\$449,786.00
Environmental:		Date	TOTAL	\$91,183.00	\$540,969.00
Other (specify):	HQ, Rich Foley	Date 3/13/13	FEDERAL PARTICIPATION		
Other (specify):	Struct. Maint, Lina Ellis	Date 3/21/13	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
District Prior Approval By:		Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)		
HQ (Issue Approve) By:		Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
Resident Engineer's Signature:		Date	FEDERAL FUNDING SOURCE PERCENT		
 10/31/13			_____		

